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## 1 Fast detection of communication patterns in distributed executions

Thomas Kunz, Michiel F. H. Seuren

November 1997

**Proceedings of the 1997 conference of the Centre for Advanced Studies on C**

Full text available:  [pdf\(4.21 MB\)](#)

Additional Information: [full citation](#), [ab](#)


Understanding distributed applications is a tedious and difficult task. Visualizations based on process-time d we use is Poet, an event tracer developed at the University of Waterloo. However, these diagrams are often tools display repeated occurrences of non-trivial commun ...

## 2 System architectures for computer music

John W. Gordon

June 1985

**ACM Computing Surveys (CSUR)**, Volume 17 Issue 2

Full text available:  [pdf\(4.61 MB\)](#)

Additional Information: [full citation](#), [ab](#)


Computer music is a relatively new field. While a large proportion of the public is aware of computer music terms of synthesis, performance, and recording hardware. This article addresses that need by surveying an system will be used for. Common uses for co ...

## 3 SpeechSkimmer: a system for interactively skimming recorded speech

Barry Arons

March 1997

**ACM Transactions on Computer-Human Interaction (TOCHI)**, Volume 4 Issue 1

Full text available:  [pdf\(1.03 MB\)](#)

Additional Information: [full citation](#), [ab](#)


Listening to a speech recording is much more difficult than visually scanning a document because of the tra browse the stored information. This article describes techniques for structuring, filtering, and presenting rec describes the SpeechSkimmer system for interacti ...

**Keywords:** audio browsing, interactive listening, nonspeech audio, speech as data, speech skimming, spee

## 4 Pipeline Architecture

C. V. Ramamoorthy, H. F. Li

January 1977 **ACM Computing Surveys (CSUR)**, Volume 9 Issue 1

Full text available:  [pdf\(3.53 MB\)](#)

Additional Information: [full citation](#), [references](#), [citations](#), [index terms](#)

## 5 System-level power optimization: techniques and tools

Luca Benini, Giovanni de Micheli

April 2000

**ACM Transactions on Design Automation of Electronic Systems (TODAES)**, Vo

Full text available:  [pdf\(385.22 KB\)](#)

Additional Information: [full citation](#), [ab](#)

6 Denial-of-service: Low-rate TCP-targeted denial of service attacks: the shrew vs. the mice and elephants  
Aleksandar Kuzmanovic, Edward W. Knightly  
August 2003 **Proceedings of the 2003 conference on Applications, technologies, architectures**

Additional Information: full citation, ab

**Keywords:** TCP, denial of service, retransmission timeout

Gordon Bell  
August 1992 **Communications of the ACM**, Volume 35 Issue 8

Additional Information: [full citation](#), [references](#), [citing](#), [index terms](#), [review](#)

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Peter M. Chen, Edward K. Lee, Garth A. Gibson, Randy H. Katz, David A. Patterson  
 June 1994 **ACM Computing Surveys (CSUR)**, Volume 26 Issue 2

Additional Information: full citation, ab

**Keywords:** RAID, disk array, parallel I/O, redundancy, storage, striping

david R. Cheriton, Carey L. Williamson  
May 1987

Additional Information: full citation, ab

September 2000 **ACM Computing Surveys (CSUR)**, Volume 32 Issue 3


Additional Information: full citation, ab

**Keywords:** distributed operating systems, distributed systems, load distribution, process migration

Vincent Cate, Thomas Gross

April 1991

**Proceedings of the fourth international conference on Architectural support for**

Full text available:  pdf(1.10 MB)


Additional Information: [full citation](#), [references](#), [abstract](#)

**12 I/O reference behavior of production database workloads and the TPC benchmarks—an analysis at t**

Windsor W. Hsu, Alan Jay Smith, Honesty C. Young

March 2001

**ACM Transactions on Database Systems (TODS)**, Volume 26 Issue 1

Full text available:  pdf(5.42 MB)

Additional Information: [full citation](#), [abstract](#)

As improvements in processor performance continue to far outpace improvements in storage performance, amounts of data. The key to achieving good I/O performance is to thoroughly understand its characteristics production database workloads from ten of the world's largest corporatio ...

**Keywords:** I/O, TPC benchmarks, caching, locality, prefetching, production database workloads, reference

**13 The evaluation of text editors: methodology and empirical results.**

Teresa L. Roberts, Thomas P. Moran

April 1983

**Communications of the ACM**, Volume 26 Issue 4

Full text available:  pdf(2.24 MB)

Additional Information: [full citation](#), [abstract](#)

This paper presents a methodology for evaluating text editors on several dimensions: the time it takes experts learn to perform basic editing tasks, and the functionality of editors over more complex tasks. Time, errors, analytically. The methodology has thus far been u ...

**Keywords:** ergonomics, human factors, human-computer interaction, human-computer interface, system d

**14 Compiler transformations for high-performance computing**

David F. Bacon, Susan L. Graham, Oliver J. Sharp

December 1994

**ACM Computing Surveys (CSUR)**, Volume 26 Issue 4

Full text available:  pdf(6.32 MB)

Additional Information: [full citation](#), [abstract](#)

In the last three decades a large number of compiler transformations for optimizing programs have been im transformations based on the analysis of scalar quantities and data-flow techniques. In contrast, optimizatio with transformations that rely on tracking the properties o ...

**Keywords:** compilation, dependence analysis, locality, multiprocessors, optimization, parallelism, supersca

**15 Congestion: Best-path vs. multi-path overlay routing**

David G. Andersen, Alex C. Snoeren, Hari Balakrishnan

October 2003

**Proceedings of the 2003 ACM SIGCOMM conference on Internet measuremen**

Full text available:  pdf(142.64 KB)

Additional Information: [full citation](#), [abstract](#)

Time-varying congestion on Internet paths and failures due to software, hardware, and configuration errors between two network locations. These approaches rely on a path-independence assumption in order to wor time. This paper examines the extent to which this assumption holds on the In ...

**Keywords:** measurement, multi-path routing, networking, overlay networks

**16 Continuous profiling: where have all the cycles gone?**

Jennifer M. Anderson, Lance M. Berc, Jeffrey Dean, Sanjay Ghemawat, Monika R. Henzinger, Shun-Tak A. Leu

November 1997

**ACM Transactions on Computer Systems (TOCS)**, Volume 15 Issue 4

Full text available:  pdf(259.35 KB)

Additional Information: [full citation](#), [abstract](#)


This article describes the Digital Continuous Profiling Infrastructure, a sampling-based profiling system desi executables, and collects profiles for entire systems, including user programs, shared libraries, and the ope with low overhead (1–3% slowdown for most workloads). A ...

**Keywords:** performance understanding, performance-monitoring hardware, profiling, program analysis

**17** End-to-end Internet packet dynamics

Vern Paxson  
October 1997

**ACM SIGCOMM Computer Communication Review , Proceedings of the ACM S  
communication**, Volume 27 Issue 4

Full text available:  [pdf\(2.34 MB\)](#)


Additional Information: [full citation](#), [ab](#)

We discuss findings from a large-scale study of Internet packet dynamics conducted by tracing 20,000 TCP receiver, the measurements allow us to distinguish between the end-to-end behaviors due to the different network events such as out-of-order delivery and packet corruption; di ...

**18** Level II technical support in a distributed computing environment

Tim Leehane  
September 1996

**Proceedings of the 24th annual ACM SIGUCCS conference on User services**

Full text available:  [pdf\(5.73 MB\)](#)

Additional Information: [full citation](#), [references](#), [index terms](#)

**19** Vector architectures: past, present and future

Roger Espasa, Mateo Valero, James E. Smith  
July 1998

**Proceedings of the 12th international conference on Supercomputing**

Full text available:  [pdf\(1.17 MB\)](#) Additional Information: [full citation](#), [references](#), [citations](#), [index terms](#)

**20** Memory contention for shared memory vector multiprocessors

R. W. Numrich  
December 1992

**Proceedings of the 1992 ACM/IEEE conference on Supercomputing**

Full text available:  [pdf\(787.75 KB\)](#)

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